

GROMOVA, T.M.; SOLOV'YEV, A.D.

Laboratory equipment for experiments with artificial fog. Trudy
TSAO no.19:101-105 '58. (MIRA 12:2)
(Weather research) (Fog)

43060

S/531/62/000/128/001/004
I053/I253

3.59/10

AUTHORS: Bakulina, Ye.V., Gromova, T.N. and Krasikov, P.N.
TITLE: The method of application of water solutions of lead iodide to supercooled clouds and mists
SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy. no. 126, 1962. Voprosy fiziki oblakov i aktivnykh vozdeystviy, 10-15

TEXT: One g of PbI_2 introduced into a supercooled mist at $-10^{\circ}C$ yields up to 1011 ice crystals. The PbI_2 solution is prepared in tanks according to the reaction $Pb(NO_3)_2 + 2NH_4I = PbI_2 + 2NH_4NO_3$ using either definite quantities of solid $Pb(NO_3)_2$ and NH_4I , or their concentrated solutions (respectively, $Pb(NO_3)_2$ - 300 g to 1 l water, or the concentration 23%, at 18° density, i.e., 1.23 g/cm³, and NH_4I - 283 g to 1 l, or 22% concentration, at 19° density, i.e., 1.157 g/cm³). The obtained PbI_2 solution remains transparent and does not precipitate in tanks nor does it dirty or block pipes and nozzles when glowing. There are 2 tables.

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43061

S/531/62/000/126/002/004
I053/I 253

3.8970

AUTHORS: Gromova, T.N., Krasikov, P.N., Ionshin, V.T., Nikandrova,
G.T., Khimich, M.A., Shishkin, N.S.

TITLE: Experiments on the application of PbI_2 in water solution
to supercooled clouds

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy.
no. 126, 1962. Voprosy fiziki oblakov i aktivnykh
vozdystviy, 16-21

TEXT: Clouds or mists are treated with a combustible water solution
of PbI_2 sprayed out of an air-plane at a pressure of 3-4 atmosphere
through sprayers comprising 32 nozzles 1.2 mm in diameter. The
effect has been observed from an altitude of 0.5-1.0 km over the
upper cloud limit. In cumulus clouds with a vertical capacity of
2 km and over, precipitations have been obtained below $-7^{\circ}C$. Com-
pact strato-cumulus clouds with a capacity of 200-460 m were dis-
sipated below $-15^{\circ}C$. At $-20^{\circ}C$, both the PbI_2 solution and the
water itself produce cloud dissipation. There is 1 table.

Card 1/1

GROMOVA, T. N.; GLIKI, N. V.

Some characteristics of the conditions governing the crystallization of the supercooled drops of water solutions. Trudy
TSAO no. 51: 20-28 '63. (MIRA 17:5)

GROMOVA, T.N.; KRASIKOV, P.N.; LENSIN, V.T.; SHISHKIN, N.S.

Experiments on the effect of a colloidal solution of silver iodide
on supercooled clouds. Trudy GGO no.156:23-30 '64.

(MIRA 17:10)

GRIMOVA, I.M.; KULIKOV, P.N.

Studies of the ice-forming properties of solutions of silver
iodide and lead iodide. Trudy VGO no. 37:125-34 '65.

(MIRA 18:8)

L 19353-66 EWT(1)/EWT(m)/FCC IJP(c) JD/GW
ACCESSION NR: AT5016803 UR/2531/65/000/176/0025/0034
AUTHOR: Gromova, T. N.; Krasikov, P. N. *B+1 14*
TITLE: Investigations of the ice-forming properties of silver iodide
and lead iodide solutions *27*
SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy,
no. 176, 1965. Voprosy fiziki oblakov i aktivnykh vozdeystviy (Problems
in cloud physics and active modification), 25-34
TOPIC TAGS: cloud dispersal, fog dispersal, cloud chamber, cloud
crystallization, aerosol chamber, aerosol, cold chamber, supercooled
fog crystallization
ABSTRACT: The methods and results of studies carried out at the Main
Geophysical Observatory to test the use of aqueous solutions of AgI
and PbI_2 to crystallize clouds and fogs are reported. The AgI was
used in the form of aqueous colloidal solutions of various concentra-
tions (0.1, 0.01, 0.001, and 0.0001%), and the PbI_2 as true solution
droplets. The experiments were performed in a 300-liter cold chamber

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ACCESSION NR: AT5016803

in which the temperature could be lowered to -30°C . Fog was produced by introducing hot steam from a boiler or by atomizing distilled water. The upper temperature thresholds at which ice crystals were formed were determined by visual observation of light beams passing through the chamber. The discovery of a new dependence of ice crystal yield on solution concentration (smaller concentrations produced larger yields per gram of AgI) is illustrated in Fig. 1 of the Enclosure. Results of these studies demonstrated the superiority of colloidal solutions over previous methods of crystallizing supercooled fogs (the yield of ice crystals per gram of AgI was $3 \cdot 10^{10}$ — $3 \cdot 10^{14}$ at fog temperatures of -7 and -15°C); solution concentrations of 0.01—0.001% produced optimum yields. Aqueous solutions of PbI_2 caused supercooled fogs to crystallize at temperatures of -5 , -7°C , and lower, and the number of crystals formed depended on solution concentration, the optimum of which was 0.06%. The yield per gram of PbI_2 at a temperature of -10°C was 10^{12} and at -15°C , 10^{13} , a value somewhat smaller than that derived by using colloidal solutions of AgI. Orig. art. has: 5 figures and 2 tables. [ER]

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L 19353-66

ACCESSION NR: AT5016803

ASSOCIATION: Glavnaya geofizicheskaya observatoriya (Main Geophysical
Observatory)

SUBMITTED: 00

ENCL: 01

SUB CODE: ES

NO REF SOV: 006

OTHER: 001

ATD PRESS: 4027

Card 3/4

L 19353-66

ACCESSION NR: AT5016803

ENCLOSURE: 01

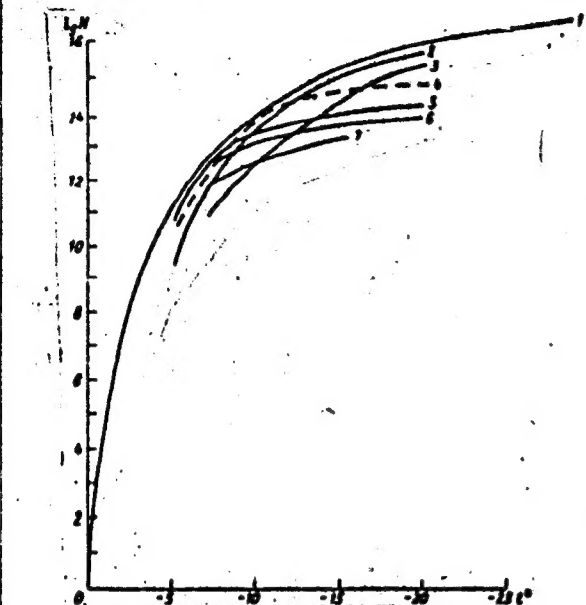


Fig. 1. Curves of the dependence of ice crystal yields on temperature for colloidal solutions of AgI of different concentrations

1 - Fletcher's computation of yield of ice particles assuming that AgI particles act as sublimation nuclei; 2 - Dessan's yield from ideal generator; 3, 4, 5, 6 - 0.1, 0.01, 0.001, and 0.0001 concentrations of colloidal solutions of AgI (%); 7 - yield during combustion of better pyrotechnical AgI composition.

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5(0)

AUTHORS:

Teys, R. V., Gromova, T. S.
Kochetkova, S. N.

SOV/20-122-6-28/49

TITLE:

Isotopic Composition of Natural Phosphates (Izotopnyy sostav prirodnikh fosfatov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 6, pp 1057 - 1060 (USSR)

ABSTRACT:

The method of isotopic paleothermometry (Refs 1 - 3) is the most important application of isotopic analysis to the solution of geochemical problems. This method is based on the dependence of the distribution of the heavy oxygen isotope between the oxygen of water and the mineral on temperature, that means it is based on the isotopic exchange between these two components. The oceans are an immense reservoir of oxygen that hardly changes its isotopic composition in the course of geological time. Therefore, its isotopic composition can be regarded as constant and equal to a certain average value. However, this condition of a constant water background (vodnyy fon) is not always and not everywhere complied with. Therefore, the possibilities of isotopic paleothermometry are limited by insufficient

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Isotopic Composition of Natural Phosphates

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information on the character and the causes for the fluctuations in the isotopic composition of sea water. At present only the carbonate paleothermometry is elaborated, as carbonates in the solution exchange their oxygen quickly enough with that of water. If it were possible to find any reaction mechanism that would prompt the oxygen exchange of another mineral with the oxygen of water, two equations with two unknown quantities could be obtained; the precipitation temperature and the isotopic composition of the aqueous phase would be the unknown quantities here. The solution of these equations with respect to both unknown quantities would make it unnecessary to know the isotopic composition of the oxygen of water, which has been necessary up to now. The authors succeeded in ascertaining that the oxygen of the sulfate is exchanged very slowly with the oxygen of water (Ref 4). Thus sulfates cannot serve as mineral thermometers. A phosphate temperature scale was then suggested (Refs 2, 3, 5). The phosphates exchange their oxygen with water even more slowly than sulfates. The heterogeneous exchange with carbonic acid was investigated with two samples of apatite (from the Lake Baikal and from the Khibiny). The velocity

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Isotopic Composition of Natural Phosphates

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constants and the half-periods of the exchange at 700, 900 and 1100° are given in table 2. Figure 1 shows the isothermal lines of these measurements, whereas figure 2 gives the isotherms. By extrapolation of these data into the range of normal temperatures (20°), $1.3 \cdot 10^4$ hours is obtained for the half-period of the exchange. The isotopic composition of natural phosphates has never been investigated. The authors used apatites and phosphorites for this purpose. The oxygen of these substances has proved to be lighter than that of river water. From table 3 it can be seen that apatite contains less O^{18} than river water. Contrary to expectations, the content of O^{18} in the phosphorites of podolite was lower than that of river water. It can be seen from the data of the authors that there is a difference between the relations between the isotopic composition of the oxygen of water, the sulfates and the phosphates. Natural sulfates mostly have a composition approaching the equilibrium with the oxygen of sea water (Ref 4), whereas the oxygen of natural phosphates is considerably different. There are 2 figures, 3 tables, and 9 references, 5 of which are Soviet.

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Isotopic Composition of Natural Phosphates

SOV/20-122-6-28/49

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I.
Vernadskogo Akademii nauk SSSR (Institute of Geochemistry
and Analytical Chemistry imeni V. I. Vernadskiy of the Academy
of Sciences, USSR)

PRESENTED: June 3, 1958, by A. P. Vinogradov, ~~Academy~~ ~~of Sciences~~

SUBMITTED: May 28, 1958

Card 4/4

KOMAROV, Sergey Vasil'yevich; GROMOVA, V.A., red.; NAZAROVA, A.S., tekhn. red.

[How a motion picture is produced] Kak sozdaetsia kinofil'm. Moskva, Izd-vo "Znanie" Vses. ob-va po rasprostraneniu polit. i nauchn. znaniy, 1961. 39 p. (Narodnyi universitet kul'tury. Fakul'tet literatury i iskusstva, no.6) (MIRA 14:7)
(Motion pictures--Production and direction)

L 28914-66 ENT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6019106

SOURCE CODE: UR/0136/66/000/002/0005/0007

16
B

AUTHOR: Gromova, V.A.

ORQ: none

TITLE: Distribution of gold and silver by concentration in the flotation of poly-metallic ore

SOURCE: Tsvetnyye metally, no. 2, 1966, 5-7

TOPIC TAGS: gold, silver, flotation, metal extraction

ABSTRACT: The Belousovka Concentrating Plant, processing ore of the Belousovka

deposits, produces four concentrates: copper, lead, zinc, and pyrite. In the

flotation process, gold and silver are separated from these concentrates.

Although the content of gold and silver in the concentrates varies in wide

limits over a year's time, the author has been able to determine a certain

pattern in the behavior of noble metals.

In the copper concentrate, gold content drops off during the warmest months of the year -- from June to September-October. The decrease amounts to one half -

one-third of the maximum content in autumn or winter.

In the lead concentrate the gold content has high periods which coincide with

the drop in gold content of the copper concentrate, i.e., the gold content

increases during the warm months in the lead concentrate.

In the zinc concentrate the high gold content is observable in the period from

May to August-September. It is almost double that of April.

The behavior of silver is analogous to that of gold.

In connection with the increased flotation activity of gold in the summer in

the zinc cycle, it appears expedient to organize heating of the pulp in the cold

periods. Heating not only would offer an increase in the extraction of zinc

but also would increase the extraction of gold in the zinc concentrate. Orig. art.

has 42 figures and 1 table.

Card 1/1 SUB CODE: 11, 08 / SUBM DATE: none

UDC: 622.765

MARTYSENKO, Yuriy Yakovlevich; GROMOVA, V.A., red.; NAZAROVA, A.S.,
tekhn. red.

[Skill of Soviet motion-picture cameramen] Masterstvo sovetskikh kinooperatorov. Moskva, Izd-vo "Znanie," 1963. 55 p.
(Narodnyi universitet kul'tury: Fakul'tet literatury i iskusstva, no.6) (MIRA 16:8)
(Motion-picture photography)

AL'BAM, M.A.; PISARENKO, A.P.; LAZARYANTS. E.G.; Prinimali uchastiye:
ALADINSKAYA, I.P.; VOLKOVA, S.A.; DYUNINA, V.G.; GROMOVA, V.A.;
KOSMODEM'YANSKIY, L.V.; KOPYLOV, Ye.P.; ROKHMISTROVA, A.P.;
SHUSHKINA, Ye.N.

High-styrene rubber mixtures for the manufacture of microporous
non-shrinking rubbers. Kauch. i rez. 22 no.7:1-3 J1 '63.
(MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh
materialov i iskusstvennoy kozhi i Nauchno-issledovatel'skiy
institut monomerov dlya sinteticheskogo kauchuka.
(Rubber, Synthetic)

L 7879-66 EWT(m)/EPF(c)/EWP(j)/T RPL RM

ACC NR: AP5025030

SOURCE CODE: UR/0286/65/000/016/0083/0083

AUTHORS: Belyayev, V. A.; Gromova, V. A.; Zemit, S. V.; Kavrayaskaya, N. L.;
Kopylov, Ye. P.; Kosmodem'yanskiy, L. V.; Kostin, D. L.; Kut'in, A. M.;
Lazaryants, E. G.; Romanova, R. G.; Tsaylingol'd, V. L.; Shikhalova, K. P.;
Shushkina, Ye. N.

ORG: none

TITLE: Method for obtaining synthetic rubber. Class 39, No. 173942

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 83

TOPIC TAGS: rubber, synthetic rubber, butadiene, styrene, polymer, copolymer, polymerization

ABSTRACT: This Author Certificate presents a method for obtaining synthetic rubber by polymerization or copolymerization of dienes with vinyl monomers, for example, butadiene with α -methylstyrene, in aqueous emulsion at low temperatures in the presence of known free-radical-initiators and regulators employing emulsifiers. To improve the polymer properties, esters of monoalkylbenzoic acid are used as emulsifiers.

SUB CODE: 14,07/

SUBM DATE: 03Jul63

Card 1/1 NW

UDC: 678.762 678.762-134

POLYAKOV, M.M.; CHEKANOV, N.S.; AGEYEVA, T.F.; GROMOVA, V.A.

Seasonal fluctuation of technological indices for dressing complex
metal ores. TSvet.met. 38 no.3:13-16 Mr '65.

(MIRA 18:6)

CRIMOVA, V.A.; AMEYLOVA, T.F.

The Belousovka ore dressing plant. TSvet.izv. 38 no.7:24-25 J1 '65.
(MIRA 18:8)

GROMOVA, V.E.

KHAYSHBASHEV, O.K.; GROMOVA, V.E.

Physicochemical analysis of the system α -trinitrotoluene --m--
-dinitrobenzene. Izv.Sekt.fiz.-khim.anal. 17:144-148 '49. (MIRA 7:6)

1. Institut obshchey i neorganicheskoy khimii [in. N.S.Kurnakova]
Akademii nauk SSSR.
(Thermal analysis) (Systems (Chemistry)) (Toluene) (Benzene)

V.B. GLODIA

③ 4

Physicochemical analysis of the system α -trinitrotoluene-
1,4-dinitronaphthalene. O. K. Khafizhashev and V. E.
Gromov. *Vopr. Khim. Fiz. Khim. Anal. Akad. Nauk S.S.S.R.* 10, 49-53 (1950). The 2 comp. formed a eu-
tectic mixt. contg. 18.07 mol. % dinitronaphthalene and
m. at 73.4°. The sp. gr. in liquid and solid state decreased
with increasing content of dinitronaphthalene, while the
coeff. of internal friction increased. M. Hosh

MF

GRUM-GRZHIMAYLO, N.V.
GRUM-GRZHIMAYLO, N.V.; GROMOVA, V.G.

The Hall effect in titanium-molybdenum alloys. Zhur. neorg. khim.
2 10:2426-2428 0 '57. (MIRA 11:3)
(Hall effect) (Titanium-molybdenum alloys)

34717
S/137/62/000/002/0871-
A060/A101

18.12.85
AUTHOR: Grum-Grzhimaylo, N. V. Gromova, V. G.

TITLE Hardness and specific electric resistivity of alloys belonging to the titanium-chromium-molybdenum system

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 2, 1962, 62, abstract 21397 ("Izv. AN SSSR. Otd. tekhn. n.", 1961, no. 4, 71-75)

TEXT: Three sections of the Ti-Cr-Mo system were investigated: Cr : Mo = 1 : 4, Cr : Mo = 1 : 1, Cr : Mo = 4 : 1. The homogenized alloys were hardened in water with ice from 1,200, 900, and 600°C, whereupon their hardness at room temperature was determined. The hardness of the alloys of the first and the second section is independent of the hardening temperature and is determined only by the quantity of the Cr and the Mo. In alloys of the third section, the hardness curves pass through a maximum (649 kg/mm²) for all the hardening temperatures at 25% Ti, 60% Cr and 15% Mo, which is caused by the formation of new coarse crystallites of the intermetallic compound TiCr₂. To determine the ρ at room temperature the specimens were hardened from 900 and 600°C. Alloys of the

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Hardness and specific electric

S/137/62/000/002/081/144
A060/A101

first and the second sections ($\alpha + \beta$ structures) have greater ρ than alloys of the third section (structure $\alpha + \text{TiCr}_2$ and $\alpha + \beta + \text{TiCr}_2$).

V. Bugrov

[Abstracter's note: Complete translation]

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

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601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700

701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800

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901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100

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loshadei (roda Equus) v Starom Svete. Pt.2: [Evolution and
classification of the genus.] Evoliutsiia i klassifikatsiia roda.
Moskva, Izd-vo Akad. nauk SSSR, 1949. 161 p. (Akademiia nauk SSSR.
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L 44199-66 EWP(m)/EWP(j)/F IJP(c) WW/RM

ACC NR: AP6015673 (A) SOURCE CODE: UR/0413/66/000/009/0076/0076

INVENTOR: Lazaryants, E. G.; Aleshin, A. M.; Gromova, V. A.;
Zemit, S. V.; Kopylov, Ye. P.; Kosmodem'yanskiy, L. V.; Romanova, R. G.; Troitskiy,
A. P.; Tsaylingol'd, V. L.; Shikhalova, K.P.; Shushkina, Ye.N.; Kostin, D. L.
 ORG: none

TITLE: Preparation of divinyl-alpha-methylstyrene rubber. Class 39,
 No. 181294

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9,
 1966, 76

TOPIC TAGS: rubber, methylstyrene rubber, alpha methylstyrene, divinyl

ABSTRACT: This Author Certificate introduces a method of preparing
 divinyl-alpha-methylstyrene rubber by emulsion copolymerization of
 divinyl with alpha-methylstyrene at 20C and above in the presence of
 persulfate initiators and emulsifiers. To increase the polymerization
 rate and improve the conditions for the granular coagulation of latex,
 commercial grades of sodium salts of the synthetic fatty acids C₁₀-C₁₆

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UDC: 678.762.2-134.62

L 44199-66

ACC NR: AP6015673

are suggested as emulsifiers in the following composition (%): C_{10} , 5-7;
 C_{11} , 12-14; C_{12} , 16-17; C_{13} , 15-17; C_{14} , 12-13; C_{15} , 9-10;
 C_{16} , 7-8; below C_{10} and above C_{16} , 15-20. [Translation] [LD]

SUB CODE: 11/ SUBM DATE: 12Mar62/

Card 2/2 JS

1. GROMOVA, Vera
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4. Carnivora, Fossil - Asia, Central
7. Primitive predators from the paleogenesis of Mongolia and Kazakhstan, Vera Gromova, Trudy Paleont, inst. 41 no. 1 '52.

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18.1152

1454,1496,1418

S/180/61/²⁸⁸⁷²000/004/010/020
E193/E383

AUTHORS: Grum-Grzhimaylo, N.V. and Gromova, V.G.

TITLE: Hardness and electrical resistivity of alloys of the titanium-chromium-molybdenum system

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo. no. 4, 1961, pp. 71 - 75

TEXT: The present investigation was carried out in continuation of the authors' previous work (Ref. 1 - Trudy In-ta metallurgii, No. 5, pub. AS USSR, 1960) whose results indicated that, although all alloys of the Ti-Cr-Mo system solidify as solid solutions with a body-centered cubic lattice, decomposition of these solid solutions takes place at lower temperatures; alloys, adjacent to the 2-phase region of the Ti-Cr system, decompose with the formation of an intermetallic compound $TiCr_2$, the decomposition of the alloys, situated in the Ti corner of the ternary diagram, being associated with the polymorphic transformation of titanium. The object of the present work was to determine hardness and electrical resistivity
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E193/E383

Hardness and electrical

of alloys of three vertical sections of the Ti-Cr-Mo system, passing through the titanium corner and characterised by Cr:Mo content ratios of 1:4, 1:1 and 4:1. The results are tabulated and reproduced graphically. In Fig. 1, the Vickers hardness (H_V , kg/mm²) is plotted against the combined Cr + Mo content (wt.%), diagrams a, b and c relating to alloys with Cr:Mo ratios of 1:4, 1:1 and 4:1, respectively; experimental points denoted by circles, dots and crosses indicate data obtained on specimens quenched from 1200, 900 and 600 °C, respectively. The composition-dependence of the electrical resistivity ($\rho \times 10^6$ ohm cm) is illustrated in the same manner in Fig. 2, where dots and crosses relate to data obtained on specimens quenched from 600 and 900 °C, respectively. The results are discussed in relation to the constitution of the alloys studied and it is concluded that, although their electrical resistivity is a function of composition, it depends also on the

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E193/E383

Hardness and electrical

constitution of the alloys, decreasing in the presence of a large proportion of the α -phase and even more so in the presence of $TiCr_2$.

There are 2 figures, 2 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The English-language reference quoted is: Ref. 2 - R.P. Elliott, B.W. Levinger and R. Rostoker - J. Metals, 1953, November.

SUBMITTED: September 3, 1960

Card 25

S/598/62/000/007/003/040
D267/D307

AUTHORS: Grum-Grzhimaylo, I. V. and Gromova, V. G.
TITLE: Phase diagrams of the system titanium-chromium-molybdenum at 1200, 900 and 600°C
SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy. no. 7, Moscow, 1962. Metallokhimiya i novyye splavy, 35-42

TEXT: Structure of alloys in the solid state was investigated along three radial sections originating in the apex of the concentration triangle corresponding to Ti, and along supplementary sections parallel to the triangle sides. All specimens were subjected to homogenization, which completely eliminated the dendritic structure. The exposure to the temperature of 1200°C lasted 5 - 10 days; 900°C - 30 - 50 days, and 600°C - 50 days. The homogeneity or heterogeneity of alloys was determined by using special etchants, and the phase composition of heterogeneous alloys was also checked by X-ray phase analysis (Debye method). Three phase regions were

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Phase diagrams of ...

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found in the diagrams of phase equilibria at 1200 and 900°C: (1) homogeneous solid solution based on the body-centered lattice (B-Ti, α -Cr, Mo); (2) two-phase region: solid solution + the intermetallic compound TiCr_2 , and (3) homogeneous region of TiCr_2 (with a very limited concentration interval). Seven phase regions were found at 600°C: (1) as (1) above; (2) homogeneous solid solution based on the hexagonal Ti lattice; (3) B-Ti + TiCr_2 (two phases); (4) as (3) above; (5) two-phase region $\alpha + \beta$ -- the result of the polymorphous transformation of alloys adjoining the system Ti-Mo; (6) two-phase region $\alpha + (\alpha + \text{TiCr}_2)$; and (7) three-phase region $\alpha + \beta + \text{TiCr}_2$. There are 6 figures and 2 tables.

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S/598/62/000/007/017/040
D290/D307

AUTHORS: Grum-Grzhimaylo, N. V. and Gromova, V. G.

TITLE: Some mechanical properties of ternary alloys of titanium with chromium and molybdenum

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splavy, no. 7, Moscow, 1962. Metallokhimiya i novyye splavy, 127-129

TEXT: The strengths and plasticities of six hardened Ti-Cr-Mo alloys were measured; the weight percent of each metal varied between 76 - 96% Ti, 0.8 - 19.2% Cr and 0.8 - 16% Mo. The present work continues an earlier study of the mechanical properties of Ti-Cr-Mo alloys by the same authors. The measurements were made by a micro-mechanical method. The alloy with optimum properties at room temperature ($\sigma_B = 94.4 \text{ kg/mm}^2$, $\delta = 23.1\%$) contained 96% Ti, 2% Cr and 2% Mo; it is a mixture of α - and β -phases. [Abstracter's note: σ_B , δ not defined.] The results are confirmed by work on the re-

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Some mechanical properties ...

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commended industrial Ti alloy VT3-1 (VT3-1) which contains 1.5 - 2.5% Cr and 1.0 - 2.8% Mo as well as Al. There are 3 figures and 2 tables.

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Name
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Title of Work
"History of Horses (Genus Equus) in the Old World"
"The Genus Hipparion according to Material from Taraklin, Pavlodar, etc."

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handbook for identifying fossil remains. Trudy Kom.chetv.per. 10 no.1:
'53. (MLRA 7:5)

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R.S., ~~tekhnicheskiy~~ redaktor.

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Pliocene of the northern coastal region of the Sea of Azov. Trudy
Khm.chetv.per.10 no.2:3-76 '54. (MIRA 8:5)
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~~GROMOVA, Vera~~; RODENDORF, B.B., otv.red.; NIKITINA, O.O., red.isd-va;
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skii institut. Trudy, vol.71) (MIRA 12:8)
(Rhinoceros, Fossil)

ORLOV, Yu.A., glavnyy red.; RAUZER-CHERNOUSOVA, D.M., otv.red.toma;
 FURSENKO, A.V., otv.red.toma; MARKOVSKIY, B.P., zam.glavnogo red.;
 RUZHENTSEV, V.Ye., zam.glavnogo red.; SOKOLOV, B.S., zam.glavnogo
 red.; VAKHRAMEYEV, V.A., red.; GEKKER, R.F., red.; GROMOVA, V.I.,
 red.; DAVITASHVILI, L.Sh., red.; KRYMOOL'TS, G.Ya., red.; LUPPOV,
 N.P., red.; OBRUCHEV, D.V., red.; OVECHKIN, N.K., red.; POKROVSKAYA,
 I.M., red.; PCHELINTSEV, V.P., red.; RADCHENKO, G.P., red.; RODEN-
 DORF, B.B., red.; ROZHDESTVENSKIY, A.K., red.; SARYCHEVA, T.G.,
 red.; SUBBOTINA, N.N., red.; TAKHMADZHAN, A.L., red.; FLEROV, K.K.,
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 red.; KOTLYAREVSKAYA, P.S., red.izd-va; MOSKVICHEVA, N.I., tekhn.
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 [General part. Protozoa] Obshchaya chast'. Prosteishie. Otv.red.
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GROMOVA, Vera

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1. Paleontologicheskii institut Akademii nauk SSSR.
(Paleontology) (Species)

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bones] Opredelitel' mlekopitaiushchikh SSSR po kostiam skeleta.
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[Key for identification by the ankle bone and heel bone] Oprede-
litel' po krupnym kostiam zapliusny. 1960. 115 p.

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(Mammals, Fossil--Identification)
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[Fundamentals of paleontology; reference book in 15 volumes for paleontologists and geologists of the U.S.S.R.] Osnovy paleontologii; spravochnik dlia paleontologov i geologov SSSR v piatnadsati tomakh. Moskva, Izd-vo Akad.nauk SSSR. Vol.3. [Mollusks: Loricata, Bivalvia, Scaphopoda] Molluski - pantsirnye, dvustvorchatye, lopatonogie. Otvet.red. A.G.Eberzin, 1960. 299 p. (Mollusks, Fossil) (MIRA 14:1)

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 tomakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane
 nedr. Vol.7. [Polysos, Brachiopoda. Supplement: Phoronidea]
 Mshanki, brachiopody. Prilozhanie: Foronidy. Otvet.red.T.G.
 Sarycheva, 1960. 342 p. plates. (MIRA 14:4)
 (Polysos, Fossil) (Brachiopoda, Fossil)
 (Phoronidea, Fossil)

GROMOVA, Vera.

A new family (Tehelkariidae) of primitive carnivores (Creodonta)
from the Oligocene of Asia. Trudy Paleont. inst. 77:71-78 '60.
(MIRA 13:10)

(Kazakhstan--Creodonta) (Mongolia--Creodonta)

GROMOVA, Vera.

Recent materials on Tapiroidea from the Paleogene of Asia. Trudy
Paleont. inst. 77:79-107 '60. (MIRA 13:10)
(Kazakhstan--Tapiro, fossil) (Mongolia--Tapiro, fossil)

GRIMOVA, Vera.

First find of an anypodont (the new genus Procadurcodon) in the
Soviet Union. Trudy Paleont. inst. 77:128-155 '60.

(MIRA 13:10)

(Artem--Rhinoceros, fossil)

ORLOV, Yu.A., glavnyy red.; MARKOVSKIY, B.P., zamestitel' glavnogo red.;
RUZHENTSEV, V.Ye., zamestitel' glavnogo red.; SOKOLOV, B.S.,
zamestitel' glavnogo red.; GROMOVA, V.I., otv.red.toma;
ROSSOVA, S.M., red.izd-va; GUROVA, O.A., tekhn.red.

[Fundamentals of paleontology; manual for paleontologists and
geologists of the U.S.S.R. in 15 volumes] Osnovy paleontologii;
spravochnik dlia paleontologov i geologov SSSR v piatnadsati
tomakh. Glav.red. IU.A.Orlov. Moskva, Gos.nauchno-tekhn.izd-vo
lit-ry po geologii i okhrane neдр. Vol.13. [Mammals] Mlekopi-
taiushchie. Otvet.red.toma V.I.Gromova. 1962. 420 p.
(MIRA 15:5)

(Mammals, Fossil)

GROMOVA, Vera

Correction of the error made in "History of genus Equus in the
Old World." *Biol.Kom.chetv.per.* no.27:159-160 '62. (MIRA 16:4)

(Horses, Fossil)

GROMOVA, Vera

Skeleton of tarpan and other wild horses. Trudy MOIP. Otd. biol.
10:10-61 '63. (MIRA 17:4)

GROMOVA, V.L., inzh.

Seminar and conference of the workers of the electric lighting
equipment industry. Svetotekhnika 8 no.4:26-27 Ap '62.
(MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy
institut.

(Electric industry workers--Congresses)

GROMOVA, V.N.

Use of ordinary hot and warm baths in the over-all treatment of pneumonia in young children. Vop.okh.mat. 1 det. 4 no.5:32-38 S-0 '59.
(MIRA 13:1)

1. Iz klinicheskogo otdela (zav. - dotsent N.P. Savvatinskaya)
Nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva
zdravookhraneniya RSFSR (nauchnyy rukovoditel' - K.V. Lapina-Dubnitskaya,
dir. - kand.med.nauk A.P. Chernikova, zamestitel' po nauchnoy chasti -
prof. N.R. Shastin).
(PNEUMONIA) (HYDROTHERAPY)

CHROMOVA, V.N.

Hydrotherapy of acute pneumonia in infants and some indexes of thermoregulation in the evaluation of its effect. Vop. kur., fizioter. i lech. fiz. kul't. 25 no.2:154-159 Mr-Apr '60.

(MIRA 13:9)

1. Iz klinicheskogo otdela nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdavookhraneniya RSFSR (nauchnyy rukovoditel' K.V. Lapina-Dubnitskaya, dir. - doktor meditsinskikh nauk A.P. Chernikova).

(PNEUMONIA)

(HYDROTHERAPY)

(BODY TEMPERATURE—REGULATION)

GROMOVA, V.N.

Use of acupuncture in bronchial asthma in children. *Pediatrics*
38 no.9:64-68 S '60. (MIRA 13:12)

1. Iz klinicheskogo otdela (nav. - dotsent N.P. Savvatinskaya)
nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva
zdravookhraneniya RSFSR (dir. A.P. Chernikova, zam. dir. po
nauchnoy chasti - prof. N.R. Shastin).
(ASTHMA) (ACUPUNCTURE)

LEBEDINSKAYA, T.A.; GROMOVA, V.N.

Cirrhosis of the liver in infants. Vop. okhr. mat. i det. 6
no. 1:88-90 Ja '61. (MIRA 14:4)

1. Iz klinicheskogo otdela (zav. - dotsent N.P. Savvatimskaya)
Nauchno-issledovatel'skogo pediatricheskogo instituta (dir.
A.P. Chernikova, zam. direktora po nauchnoy chasti - prof.
N.R. Shastin) Ministerstva zdravookhraneniya RSFSR.
(LIVER—~~CIRRHOSIS~~) (INFANTS—DISEASES)

GROMOVA, V.N.

Significance of ozocerite therapy in acute pneumonia in infants.
Vop. okh. mat. i det. 6 no.7:18-22 J1 '61. (MIRA 14:8)

1. Iz klinicheskogo otdela (zav. - dotsent N.P.Savvatimskaya) Nauchno-
issledovatel'skogo pediatricheskogo instituta (dir. - doktor med.
nauk A.P.Chernikova, zamestitel' direktor po nauchnoy chasti - prof.
N.R.Shastin) Ministerstva zdravookhraneniya RSFSR.
(PNEUMONIA) (OZOCERITE--THERAPEUTIC USE)

GROMOVA, V.N.; STEPANOVA-MASLAUSKENE, T.P.

Calculation of the thermal-circulatory index in normal infants. Gig. i san. 26 no.9:44-47.8.61. (MIRA 15:3)

1. Iz klinicheskogo otdela Nauchno-Issledovatel'skogo pedi-
tricheskogo instituta Ministerstva zdoravookhraneniya RSFSR.
(BODY TEMPERATURE) (BLOOD-CIRCULATION)

LA

.22-

The presence of hydriodane in Sarakhan petroleum.
M. G. Rudenko and V. N. Gromova (Acad. Sci., U.S.S.R.). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 10, 2213-16 (1940).- Fractionation of the petroleum and chloromethylation of fraction, b. 100-7°, with CH_3COCl , followed by dehydrogenation of fraction, b. 101.5-103°, over C-Pt, and bromination of the product at reflux in CHCl_3 , gave tridecahydriodene, m. 131.5°, which in decelerates the probable presence of some 0.001% of hydriodane in the original petroleum. Distillation of the bromine distillate with K_2MnO_4 gave phthalic acid.
G. M. Kozlovskii

CA

10

The effect of aluminum chloride on cyclopentene. M. G. Rudenko and V. N. Gromova. *Doklady Akad. Nauk. S.S.S.R.* 67, 855-8(1949).—Polymerization of cyclopentene (I) with 20% $AlCl_3$ 30 hrs. at 50° yields a complex mixture composed of the following: *spirocyclopentane*, b.p. 185-6°, n_D^{20} 1.4740, d_4^{20} 0.8627 (Br yields the *hexa-fluoro* deriv., m. 232.5-3.5°); *tricyclopentane* (II), b.p. 127-8°, n_D^{20} 1.5085, d_4^{20} 0.8606; *tetracyclopentane*, b.p. 108-91°, n_D^{20} 1.5295, d_4^{20} 1.0028; and *hexacyclopentane*, m. 71-2° (from iso-PrOH). The iodine nos. of the products were very small, indicating complex fused ring system formation.



G. M. Kosolapoff

CA

Thermal stability of some sulfur compounds. M. G. Rudenko and V. N. Gromova. *Doklady Akad. Nauk S.S.S.R.* 81, 207-8 (1961).—Passage of the vapors of various S deriva. through a hot tube filled with steel fragments gave the following indications of decompos. by evolution of H_2S : the following begins to decump. at 180°: *iso*-BuSH at 225-30°; BuSH begins to decump. at 200°; PhSH at 430°; Et₂S at 400°; PhSC₂H₅ at 380° only slightly; thiophene is stable at 300°, while 2,6-dimethylthiophene begins to decump. slightly at 475°. The decompos. in benzene soln. correspond to the decompos. of the pure substances in respect to temp. limits. G. M. Kozlovskii

GROMOVA, V. N.

USSR/Chemistry - Hydrocarbons, Petroleum Sep 52
Derivatives

"Transformation of Cyclopentene Under the Action
of Aluminum Chloride," M. G. Rudenko, V. N. Gromova,
Inst of Petroleum, Acad of Sci USSR

"Zhur Obshch Khim" Vol 22, No 9, pp 1542-1546

Cyclopentene reacts with aluminum chloride to form
a complex mixt of hydrocarbons. From this mixt,
spirocyclodecane, tricyclopentane, tetracyclopentane,
and hexacyclopentane were sepd.

232T20

Chemical Abst.
Vol. 48 No 8
Apr. 25, 1954
Organic Chemistry

4
②: *chem*
Transformations of cyclopentene under the influence of
aluminum chloride. M. G. Rudenko and V. N. Grumova.
J. Gen. Chem. (U.S.S.R.) 22, 1583-6 (1952) (Engl. transla-
tion).—See C.A. 47, 8023b. II. L. II.

11-11-54
mg

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5562

Author: Rudenko, M. G., Gromova, V. N.

Institution: None

Title: Dependence of Physicochemical Properties of Synthetic Oils on Structure of Initial Hydrocarbons. Communication I

Original

Publication: Khimiya i tekhnol. topliva, 1956, No 4, 13-19

Abstract: Investigation of the effect of the structure of olefins on the properties of oils obtained by their polymerization with $AlCl_3$. Oils were prepared from individual hydrocarbons and synthol fractions with a boiling range 110-165°. Oils from n-olefins had slowly ascending viscosity versus temperature curves, and with increase in the molecular weight (MW) of the olefin the viscosity index (VI) of the oil became higher. On change of the position of the double bond from

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5562

Abstract: the first to the second carbon atom the VI of the oil is lowered. Iso-olefins yield oils of lower VI than n-olefins of the same MW. With increasing number of side chains and the same MW, the VI of the oils becomes lower, while increasing length of the main olefinic chain causes increase of the VI. Degree of polymerization affects only the viscosity level of the resulting oils while their VI remains almost unchanged thereby. Setting point (SP) of oils produced from olefins is low, and on transition from olefins of low MW to olefins of medium MW a lowering of the SP takes place while on transition to olefins having a higher MW a sharp rise of the SP of the oils is observed. Oils produced from iso-olefins have higher SP than those made from n-olefins, but show the same correlation between SP and the MW of the initial olefin. Oils from synthol have properties similar to those of oils produced from octenes.

Card 2/2

GROMOVA, V. N.

Correlation of the physical-chemical properties of synthetic oils with the structure of the starting material. II. M. G. Rudenko and V. N. Gromova. *Khim. i Tekhnol. Topiva* 1956, No. 5, 48-51; *Ch. C. A.* 50, 12459j. The polymerization of hydrocarbons was carried out in the presence of $AlCl_3$ by the previously described method (*loc. cit.*). The olefins listed gave polymers with the following % yield, b.p. at 760 mm., mol. wt., and kinematic viscosity (centistokes) at 50, 75, and 100°: cyclopentene, 25.16, 370-453°, 291-8, 139.5, 29.60, 11.80; isobutylcyclopentene, 31.94, 287-403°, 439.1, 133.0, 33.70, 13.90; hexylcyclopentene, 44.09, 450-453°, 401.5, 63.00, 23.50, 11.10; cyclohexene, —, 407-495°, 341.0, 179.40, 42.70, 15.80; hexylcyclohexene, 30.85, 440-505°, 470.8, 95.80, 28.50, 13.00; β -methylstyrene (I), 12.4, 340-410°, 295.0, 721.60, 60.70, 14.90; allylbenzene (II), 11.15, 354-450°, 263.9, 70.70, 22.00, 10.50; mixt. of I and II, —, 350-405°, 293.1, 87.50, —, 7.20; phenyl-1-heptene, —, 412-510°, 414.8, 122.50, 30.60, 12.20; phenyl-2-butene, 13.33, 374-520°, 354.0, 174.60, 30.50, 11.00. The practical aspects of these results are briefly evaluated. A. P. Kotloby

STEPANOVA-MASLAUSKENE, T.P.; GROMOVA, V.N. ...

Thermal blood circulation index in acute pneumonia in infants. Vop.
okh.mat.i det. 7 no.7:19-23 J1 '62. (MIRA 15:11)

1. Iz kliniki rannego detskogo vozrasta (nauchnyy rukovoditel' -
prof. N.R.Shastin) Nauchno-issledovatel'skogo pediatricheskogo
instituta (dir. - kand.med.nauk V.P.Spirina) Ministerstva zdravo-
okhraneniya RSFSR.
(PNEUMONIA) (BODY TEMPERATURE) (BLOOD—CIRCULATION)

9/137/51/000/006/088/092
A006/A101

AUTHORS: Tukhtanova, N.S., Gromova, V.S., Klark, J.B.

TITLE: Corrosion resistance of aluminum alloys with different galvanic coatings under atmospheric conditions

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 6, 1961, 51, abstract 61401
("Tr. In-ta fiz. khimii. AN SSSR", 1960, no. 8, 173 - 180)

TEXT: During three years natural tests were made with Al-alloys of the following grades: A-1, A-2, A-1 (D1), A-16 (D16), A-19. The tests were performed with alloys in delivery state and having galvanic coatings of Zn, Cd or the П00-40 (P00-40) alloy (Fe-Sn). The tests were made under various climatic conditions. The thickness of the coatings was 40 μ . ✓

Ye. Layner

[Abstracter's note: Complete translation]

Card 1/1

ROSTOVTSSEV, V. YE., MAKARONOVA, YE. S., GRIGOROVA, V. V.

Textile Chemistry

Neutralization of diazo solutions by means of chalk. Tekst. prom. 12 no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, April 1952, UNCLASSIFIED.

GROMOVA, V.V.

Colorimetric analysis of diazo powders. Tekstil. Prom. 12, No.5,
32-3 '52. (MLRA 5:5)
(CA 47 no.14:6821 '53)

GROMOVA, V. V.

Distr: 4E41
 An accelerated method for determination of dithionite
 and alkali V. B. Rostovtsev and V. V. Gromova. Tekh.
 sb. Prom. 1953, No. 1, 88-8; Referat. Zhur., Khim. 1956,
 Abstr. No. 25973.—Det. the dithionite (I) by calc. the ab-
 sorbed O from the air in a closed vessel at const. temp. In-
 troduce the soln. being tested, together with a small amt. of
 foam-forming agent, into the flask under a layer of trans-
 former oil. Close the flask with a stopper which has 2
 tubes. Connect the 1st tube to 2 water-filled measuring
 buret, and the 2nd through a stopcock to the air. Immerse
 the flask in water to maintain const. stabilization of temp.,
 after 10 min. close the stopcock of the 2nd tube, and shake
 the flask for 5-8 min. while it is in the water. Because of the
 O absorption within the flask ($\text{Na}_2\text{S}_2\text{O}_4 + \text{O}_2 + \text{H}_2\text{O} \rightarrow$
 $\text{NaHSO}_4 + \text{NaHSO}_3$) the water level in the buret connected
 with the flask rises. Raise the 2nd buret until the water
 levels are equal, and calc. the vol. of absorbed O. For
 neutralization of the acid products in I add more alkali.
 Det. the alk. of I soln. by titration with 0.1N CH_3COOH
 soln. with phenolphthalein as indicator. N. Vasilov

pm

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Gromova, V. V.

CH Dyeing of cotton and staple fabrics with direct dyes.
V. B. Rostovtsev and V. V. Gromova. *Tekstil. Prom.* 15,
No. 12, 41-2 (1955).—This study, carried out with 7 direct
dyes, showed the incorrectness of an assumption made ear-
lier that the staple yarn (like other fibers made from hy-
drated cellulose) had a greater adsorption than cotton for
direct dyes because of its open structure. Samples of de-
sized staple and cotton fabrics were dyed together in a bath
contg. dye 2, Na_2CO_3 1.5, Glauber salt 20% (calcd. on
the sample wt.) with bath modulus 1:30 at 70-80° for 60
min., rinsed with hot and cold H_2O , dried, and extd. with
25% aq. $\text{C}_2\text{H}_5\text{N}$. The amt. of dye adsorbed was then detd.
colorimetrically. Assuming the content of dye of the cot-
ton equal to 100%, it varied on the staple from 29.6 (Tur-
quoise Light Fast) to 132.6 (violet). It is postulated that
the steric configuration of the dye dets. its adsorption by
fabric. By opening the staple (treating it at 80° for 10 sec.
with 10% NaOH , rinsing, and drying) the amt. of red dye
adsorbed increased from the initial 59% to 100.5%.
Elisabeth Barabagh

GROMOVA, V.V., inzh.; SHMUYLOVICH, L. Ya., inzh.

Tables of specific power ratings for light fixtures with
incandescent lamps. Svetotekhnika 7 no.4:18-26 Ap '61.

(MIRA 14:6)

1. LO Gosudarstvennogo proyektного instituta "Tyazhpromelektropeyekt."
(Electric light fixtures--Tables, calculations, etc.)

BOBKOVA, K.A., kand.med.nauk; GHOMOVA, V.V.

Influence of the emotional factor in the development of cerebral atherosclerosis. Trudy Gos. nauchno-issl. inst. psikh. 22:88-97 '60. (MIRA 15:1)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii
Ministerstva zdravookhraneniya RSFSR.
(EMOTIONS) (CEREBRAL ARTERIOSCLEROSIS)

ENTIN, G.M.; GROMOVA, V.V.

Therapeutic effect of the ganglion-blocking drug, dicoline, in the treatment of cerebrovascular diseases. Trudy Gos. nauchno-issl. inst. psikh. 22:408-419 '60. (MIRA 15:1)

1. Klinika sosudistyykh psikhozov (zav. prof. V.M. Banskchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii
Ministerstva zdravookhraneniya RSFSR.
(DICOLINE) (CEREBROVASCULAR DISEASE)

GROMOVA, V. V., CAND MED SCI, "PSYCHIC DISORDERS WITH
A PREDOMINANT ASTHENIA PICTURE FOLLOWING INFLUENZAL IN-
FECTION." MOSCOW, 1961. (FIRST MOSCOW ORDER OF LENIN
MED INST IM I. M. SECHENOV). (KL, 3-61, 231).

BOBKOVA, K.A., starshiy nauchnyy sotrudnik; GROMOVA, V.V., mladshiy
nauchnyy sotrudnik

Some clinical characteristics of initial atherosclerosis in
patients who have suffered contusion of the brain. Trudy
Gos.nauch-issl.inst.psikh. 25:23-35 '61. (MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta
psikhiatrii Ministerstva zdavookhraneniya RSFSR.
(CEREBRAL ARTERIOSCLEROSIS)
(BRAIN—WOUNDS AND INJURIES)

GROMOVA, V.V., mladshiy nauchnyy sotrudnik

Treatment with the sum of saponins from Dioscorea caucasina and blue valerian in cerebral atherosclerosis with mental disorders.
Trudy Gos.nauch-issl.inst.psikh. 25:327-334 '61. (MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta
psikhiatrii Ministerstva zdravookhraneniya RSFSR.
(SAPONINS) (CEREBRAL ARTERIOSCLEROSIS)
(MENTAL ILLNESS)

BOBKOVA, K.A., starshiy nauchnyy sotrudnik; GROMOVA, V.V., mladshiy
nauchnyy sotrudnik

Treatment with aminazine of vascular patients with a geriatric-
hypochondriacal syndrome. Trudy Gos.nauch-issl.inst.psikh. 25:
342-351 '61. (MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii
Ministerstva zdravookhraneniya RSFSR.
(HYPOCHONDRIA) (CHLORPROMAZINE) (CEREBROVASCULAR DISEASE)

SAVCHUK, V.I., kand.med.nauk; GROMOVA, V.V., mladshiy nauchnyy sotrudnik;
ENTIN, G.M., mladshiy nauchnyy sotrudnik

Data from a clinical and pathophysiological study of the
therapeutic action of dicoline in the treatment of vascular
diseases of the brain with mental disorders; report No. 2.
Trudy Gos.nauch-issl.inst.psikh. 25:352-367 '61. (MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
i otdel patofiziologii vysshey nervnoy deyatel'nosti (zav. -
prof Yu.N.Uspenskiy) Gosudarstvennogo nauchno-issledovatel'skogo
instituta psikiatrii Ministerstva zdravookhraneniya RSFSR.
(DICOLINE) (MENTAL ILLNESS) (CEREBROVASCULAR DISEASE)

GROMOVA, V.V., mladshiy nauchnyy sotrudnik

Correlation of arterial and venous pressure in hypertension
with mental disorders. Trudy Gos.nauch-issl.inst.psikh. 25:
478-487 '61. (MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii
Ministerstva zdravookhraneniya RSFSR.
(BLOOD PRESSURE) (HYPERTENSION)(MENTAL ILLNESS)

GROMOVA, V.V., kand.med.nauk

Dynamics of venous and arterial pressure in various stages of atherosclerosis of the vessels of the brain with mental disorders. Trudy 1-go MMI 21:322-335'63. (MIKA 16:9)

1. Kafedra psikhatrii (zav. - prof. V.M.BANSHCHIKOV) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova i klinika psikhofarmakologii (zav. - G.Ya Avrutskiy) Instituta psikhatrii Ministerstva zdravookhraneniya SFSR.
(CEREBRAL ARTERIOSCLEROSIS) (PSYCHOSES)
(BLOOD PRESSURE)

Study of the impact of the 1970-71 season on the economy of Gambia and Senegal. The study was conducted by the United Nations Development Programme (UNDP) and the World Bank. The study found that the 1970-71 season had a significant impact on the economy of Gambia and Senegal. The study also found that the impact was more severe in Gambia than in Senegal. The study was published in the Journal of Development Economics, 1972, 1(1), 1-10.

GROMOVA, V.V.

Treatment of depressive states with parnat (transamine). Vop.klin.,
patog. i lech. shiz. no.1:26-29 '64.

(MIRA 18:5)

1. Otdel psikhofarmakologii (zav. - kand.med.nauk G.Ya.Avrutskiy)
Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhologii
Ministerstva zdravookhraneniya RSFSR.

c A GROMOVA, V. Ye.

Physicochemical analysis of the system 2,6-dinitro-
toluene-*m*-dinitrobenzene. O. K. Khalilov and V. R.
Gromova. *Izv. Akad. Nauk S.S.S.R. Khim. Anal. Inst. (Mashin)*
(Nauka, Khim., Akad. Nauk S.S.S.R. 17, 144 R (1969))
The system 2,6-dinitro- $C_6H_3(NO_2)_2$ -*m*- $C_6H_4(NO_2)_2$,
 m - $C_6H_4(NO_2)_2$, m . 81.0°. This compound forms with its component
eutectics with 45 mol. % at 80.8° and 52.6 mol. % of *m*- $C_6H_4(NO_2)_2$ at 69.8°. An unstable eutectic was observed
with 80 mol. % of *m*- $C_6H_4(NO_2)_2$ at 49.6°. Addn. of *m*- $C_6H_4(NO_2)_2$ lowered the viscosity and d. of the mixt. Be-
cause of its intense dimer, the chem. compd. formed was
not reflected on the viscosity and d. curves. M. Hovh

GROMOVA, V.Ye., inzh. (Moskva); SILAKOV, V.N., inzh. (Moskva);
TSVETKOV, Ye.V., kand.tekhn.nauk (Moskva)

Algorithm and program for calculating optimal seasonal conditions
of the reservoirs of the Volga and Kama river hydroelectric
power station cascades using the "Ural-4." Elektrichestvo no.3:
15-21 Mr '64. (MIRA 17:4)

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GROMOVA, K. A.

Acetylcholine in the ontogenesis of mammals. A. M. Ryabinovskaya and K. A. Gromova. *Bull. Acad. Sci. USSR Div. Biol. Sci. Ser. Zool.* 1977, 9(1040) (in English). Skeletal muscle of rabbits, rats and guinea pigs, prep. by the method of Chang and Gaddum (C. A. 28, 8109), produce acetylcholine contractions of the evoked dorsal muscle of the leech. The contr. of the substance causing this reaction increases with the age of the animals and varies somewhat in different species. Since the hemolymph reduces this effect only partially, a hemolymph-resistant substance must be present besides acetylcholine. The contr. of this fraction is greater in adult animals than in newborn, and least in animals with a short period of embryonic development. A. Bures.

ADDITIONAL LITERATURE CLASSIFICATION